

Abstract:

Actuating Unit for an Electromechanically Actuated Disc Brake

The present invention discloses an actuating unit for an electromechanically actuated disc brake for automotive vehicles which is basically composed of a drive unit (1) or an electric motor (10), an actuating element (7) by means of which one (4) of two friction linings (4, 5) slidably arranged in a brake caliper are moved into engagement with a brake disc (6), and a reducing gear (2). A freewheel mechanism (35) that interacts with the electric motor (10) has the function of a parking brake.

In order to ensure a high level of reliability in operation of the parking brake and to render it resistant to external influences, in particular, oscillations or vibrations, the present invention suggest that the freewheel mechanism (35) be configured in such a way that its clamping effect is produced by a form-locking torque transmission and that, in its actuated state, it prevents a rotational movement of a bearing (24) in which the rotor (11) of the electric motor (10) is mounted.

(Figure 2)